

## CHAPTER 1. PURPOSE

The purpose of the Desert Tortoise Field Manual (Manual) is to update and consolidate existing survey and handling protocols, procedures, and applicable Federal regulations related to the federally threatened Mojave desert tortoise (*Gopherus agassizii*) into one document. This Manual supersedes all previous handling guidelines and procedures documents for the Mojave desert tortoise (desert tortoise). It was developed specifically for the desert tortoise. Additional information on the desert tortoise, including its biology, ecology, and Federal status, can be downloaded at [http://www.fws.gov/nevada/desert\\_tortoise/dt/dt\\_life.html](http://www.fws.gov/nevada/desert_tortoise/dt/dt_life.html).

This Manual is a consolidation and revision of the following documents:

- Procedures for Endangered Species Act Compliance for the Mojave Desert Tortoise (USFWS 1992a)
- Field Survey Protocol for Any Federal Action that May Occur Within the Range of the Desert Tortoise (USFWS 1992b)
- Field Survey Protocol for Any Non-Federal Action that May Occur Within the Range of the Desert Tortoise (USFWS 1992c)
- Guidelines for Handling Desert Tortoises during Construction Projects, previously prepared by the Desert Tortoise Council (July 1994, revised July 1999)
- Desert Tortoise Exclusion Fence Specifications, prepared by the USFWS (Chapter 8).

This Manual provides guidance for pre-project survey methods to determine the status of the desert tortoise for projects occurring within the species' range on Federal and non-Federal lands. The purpose of this guidance is to provide technical assistance to entities to determine whether a biological opinion or incidental take permit (in conjunction with a HCP) may be needed prior to project implementation. This Manual is also intended for use by Authorized Biologists and desert tortoise Monitors (section 3.1) conducting activities under an Endangered Species Act (ESA) section 7 biological opinion or section 10 incidental take permit and provides guidance on handling desert tortoises that need to be moved out of harm's way or prevented from re-entering a project site.

This Manual does not authorize desert tortoise handling/capturing or any other form of take (See Chapter 2 for definition of "take") without appropriate Federal and State authorizations. The responsible Federal and State agencies will review the qualifications statement for each potential desert tortoise biologist and authorize him/her to serve as an Authorized desert tortoise Biologist for a given project. The Manual includes methods that are effectively used by professional desert tortoise researchers; as field protocols evolve, they will be updated with new information as it becomes available and posted on-line.

We encourage comments on this Manual; please submit problems encountered and recommendations for improvement to the U.S. Fish and Wildlife Service (USFWS) (see AGENCY/ORGANIZATION CONTACT INFORMATION in Chapter 3.2). In subsequent years, the USFWS will use your input to revise and incorporate new information and methods.

## **Literature Cited**

Desert Tortoise Council. 1994. Guidelines for handling desert tortoises during construction projects. Edward L. LaRue, Jr., editor. San Bernardino, California. Revised 1999.

U.S. Fish and Wildlife Service. 1992a. Procedures for Endangered Species Act compliance for the Mojave desert tortoise. Regions 1, 2, and 6. October 1992. 18 pages plus appendices.

U.S. Fish and Wildlife Service. 1992b. Field survey protocol for any federal action that may occur within the range of the desert tortoise. January 1992. 16 pages.

U.S. Fish and Wildlife Service. 1992c. Field survey protocol for any non-federal action that may occur within the range of the desert tortoise. January 1992. 22 pages.